SEQUENCE LISTING

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<120> HUMAN HYDROLYTIC ENZYMES

<130> PF-0738 USN

<140> 10/070,634
<141> Herewith

<150> PCT/US00/24107
<151> 2000-08-31

<150> 60/151,819
<151> 1999-09-01

<160> 28

<170> PERL Program

<210> 1
<211> 288
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1659002CD1

<400> 1

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Met Ala Ala Val Leu Gln Arg Val Glu Arg Leu Ser Asn Arg Val
  1               5                  10                  15
Val Arg Val Leu Gly Cys Asn Pro Gly Pro Met Thr Leu Gln Gly
             20                  25                  30
Thr Asn Thr Tyr Leu Val Gly Thr Gly Pro Arg Arg Ile Leu Ile
             35                  40                  45
Asp Thr Gly Glu Pro Ala Ile Pro Glu Tyr Ile Ser Cys Leu Lys
             50                  55                  60
Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile Gln Glu Ile Val Val
             65                  70                  75
Thr His Trp His Arg Asp His Ser Gly Gly Ile Gly Asp Ile Cys
             80                  85                  90
Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys Lys Leu Pro
             95                 100                 105
Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu Gln Gln
            110                 115                 120
Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly Ala
```

```
                125                 130                 135
Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met
                140                 145                 150
Ala Leu Leu Leu Glu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys
                155                 160                 165
Ile Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr
                170                 175                 180
Met Asn Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile
                185                 190                 195
Tyr Pro Gly His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile
                200                 205                 210
Gln Gln Tyr Ile Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu
                215                 220                 225
Thr Leu Phe Arg Glu Asn Phe Glu Lys Ser Phe Thr Val Met Glu
                230                 235                 240
Leu Val Lys Ile Ile Tyr Lys Asn Thr Pro Glu Asn Leu His Glu
                245                 250                 255
Met Ala Lys His Asn Leu Leu Leu His Leu Lys Lys Leu Glu Lys
                260                 265                 270
Glu Gly Lys Ile Phe Ser Asn Thr Asp Pro Asp Lys Lys Trp Lys
                275                 280                 285
Ala His Leu
```

<210> 2
<211> 432
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1881009CD1

<400> 2

```
Met Phe Pro Ser Ile Leu Met Phe His Pro Glu Ala Ala Arg Ala
  1               5                  10                  15
Ile Leu Glu Tyr Arg Ile Arg Thr Leu Asp Gly Ala Leu Glu Asn
                20                  25                  30
Ala Gln Asn Leu Gly Tyr Gln Gly Ala Lys Phe Ala Trp Glu Ser
                35                  40                  45
Ala Asp Ser Gly Leu Glu Val Cys Pro Glu Asp Ile Tyr Gly Val
                50                  55                  60
Gln Glu Val His Val Asn Gly Ala Val Val Leu Ala Phe Glu Leu
                65                  70                  75
Tyr Tyr His Thr Thr Gln Asp Leu Gln Leu Phe Arg Glu Ala Gly
                80                  85                  90
Gly Trp Asp Val Val Arg Ala Val Ala Glu Phe Trp Cys Ser Arg
                95                 100                 105
Val Glu Trp Ser Pro Arg Glu Glu Lys Tyr His Leu Arg Gly Val
                110                 115                 120
Met Ser Pro Asp Glu Tyr His Ser Gly Val Asn Asn Ser Val Tyr
                125                 130                 135
Thr Asn Val Leu Val Gln Asn Ser Leu Arg Phe Ala Ala Ala Leu
                140                 145                 150
```

```
Ala Gln Asp Leu Gly Leu Pro Ile Pro Ser Gln Trp Leu Ala Val
                155                 160                 165
Ala Asp Lys Ile Lys Val Pro Phe Asp Val Glu Gln Asn Phe His
                170                 175                 180
Pro Glu Phe Asp Gly Tyr Glu Pro Gly Glu Val Val Lys Gln Ala
                185                 190                 195
Asp Val Val Leu Leu Gly Tyr Pro Val Pro Phe Ser Leu Ser Pro
                200                 205                 210
Asp Val Arg Arg Lys Asn Leu Glu Ile Tyr Glu Ala Val Thr Ser
                215                 220                 225
Pro Gln Gly Pro Ala Met Thr Trp Ser Met Phe Ala Val Gly Trp
                230                 235                 240
Met Glu Leu Lys Asp Ala Val Arg Ala Arg Gly Leu Leu Asp Arg
                245                 250                 255
Ser Phe Ala Asn Met Ala Glu Pro Phe Lys Val Trp Thr Glu Asn
                260                 265                 270
Ala Asp Gly Ser Gly Ala Val Asn Phe Leu Thr Gly Met Gly Gly
                275                 280                 285
Phe Leu Gln Ala Val Val Phe Gly Cys Thr Gly Phe Arg Val Thr
                290                 295                 300
Arg Ala Gly Val Thr Phe Asp Pro Val Cys Leu Ser Gly Ile Ser
                305                 310                 315
Arg Val Ser Val Ser Gly Ile Phe Tyr Gln Gly Asn Lys Leu Asn
                320                 325                 330
Phe Ser Phe Ser Glu Asp Ser Val Thr Val Glu Val Thr Ala Arg
                335                 340                 345
Ala Gly Pro Trp Ala Pro His Leu Glu Ala Glu Leu Trp Pro Ser
                350                 355                 360
Gln Ser Arg Leu Ser Leu Leu Pro Gly His Lys Val Ser Phe Pro
                365                 370                 375
Arg Ser Ala Gly Arg Ile Gln Met Ser Pro Pro Lys Leu Pro Gly
                380                 385                 390
Ser Ser Ser Ser Glu Phe Pro Gly Arg Thr Phe Ser Asp Val Arg
                395                 400                 405
Asp Pro Leu Gln Ser Pro Leu Trp Val Thr Leu Gly Ser Ser Ser
                410                 415                 420
Pro Thr Glu Ser Leu Thr Val Asp Pro Ala Ser Glu
                425                 430
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<210> 3
<211> 737
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2054065CD1

<400> 3

```
Met Ala Asp Thr Gln Tyr Ile Leu Pro Asn Asp Ile Gly Val Ser
  1               5                  10                  15
Ser Leu Asp Cys Arg Glu Ala Phe Arg Leu Leu Ser Pro Thr Glu
                 20                  25                  30
```

```
Arg Leu Tyr Ala Tyr His Leu Ser Arg Ala Ala Trp Tyr Gly Gly
                35                  40                  45
Leu Ala Val Leu Leu Gln Thr Ser Pro Glu Ala Pro Tyr Ile Tyr
            50                  55                  60
Ala Leu Leu Ser Arg Leu Phe Arg Ala Gln Asp Pro Asp Gln Leu
        65                  70                  75
Arg Gln His Ala Leu Ala Glu Gly Leu Thr Glu Glu Glu Tyr Gln
    80                  85                  90
Ala Phe Leu Val Tyr Ala Ala Gly Val Tyr Ser Asn Met Gly Asn
95                  100                 105
Tyr Lys Ser Phe Gly Asp Thr Lys Phe Val Pro Asn Leu Pro Lys
            110                 115                 120
Glu Lys Leu Glu Arg Val Ile Leu Gly Ser Glu Ala Ala Gln Gln
        125                 130                 135
His Pro Glu Glu Val Arg Gly Leu Trp Gln Thr Cys Gly Glu Leu
    140                 145                 150
Met Phe Ser Leu Glu Pro Arg Leu Arg His Leu Gly Leu Gly Gln
155                 160                 165
Glu Gly Ile Thr Thr Tyr Phe Ser Gly Asn Cys Thr Met Glu Asp
            170                 175                 180
Ala Lys Leu Ala Gln Asp Phe Leu Asp Ser Gln Asn Leu Ser Ala
        185                 190                 195
Tyr Asn Thr Arg Leu Phe Lys Glu Val Asp Gly Glu Gly Lys Pro
    200                 205                 210
Tyr Tyr Glu Val Arg Leu Ala Ser Val Leu Gly Ser Glu Pro Ser
215                 220                 225
Leu Asp Ser Glu Val Thr Ser Lys Leu Lys Ser Tyr Glu Phe Arg
            230                 235                 240
Gly Ser Pro Phe Gln Val Thr Arg Gly Asp Tyr Ala Pro Ile Leu
        245                 250                 255
Gln Lys Val Val Glu Gln Leu Glu Lys Ala Lys Ala Tyr Ala Ala
    260                 265                 270
Asn Ser His Gln Gly Gln Met Leu Ala Gln Tyr Ile Glu Ser Phe
275                 280                 285
Thr Gln Gly Ser Ile Glu Ala His Lys Arg Gly Ser Arg Phe Trp
            290                 295                 300
Ile Gln Asp Lys Gly Pro Ile Val Glu Ser Tyr Ile Gly Phe Ile
        305                 310                 315
Glu Ser Tyr Arg Asp Pro Phe Gly Ser Arg Gly Glu Phe Glu Gly
    320                 325                 330
Phe Val Ala Val Val Asn Lys Ala Met Ser Ala Lys Phe Glu Arg
335                 340                 345
Leu Val Ala Ser Ala Glu Gln Leu Leu Lys Glu Leu Pro Trp Pro
            350                 355                 360
Pro Thr Phe Glu Lys Asp Lys Phe Leu Thr Pro Asp Phe Thr Ser
        365                 370                 375
Leu Asp Val Leu Thr Phe Ala Gly Ser Gly Ile Pro Ala Gly Ile
    380                 385                 390
Asn Ile Pro Asn Tyr Asp Asp Leu Arg Gln Thr Glu Gly Phe Lys
395                 400                 405
Asn Val Ser Leu Gly Asn Val Leu Ala Val Ala Tyr Ala Thr Gln
            410                 415                 420
Arg Glu Lys Leu Thr Phe Leu Glu Glu Asp Asp Lys Asp Leu Tyr
        425                 430                 435
Ile Leu Trp Lys Gly Pro Ser Phe Asp Val Gln Val Gly Leu His
    440                 445                 450
```

```
Glu Leu Leu Gly His Gly Ser Gly Lys Leu Phe Val Gln Asp Glu
                455                 460                 465
Lys Gly Ala Phe Asn Phe Asp Gln Glu Thr Val Ile Asn Pro Glu
                470                 475                 480
Thr Gly Glu Gln Ile Gln Ser Trp Tyr Arg Ser Gly Glu Thr Trp
                485                 490                 495
Asp Ser Lys Phe Ser Thr Ile Ala Ser Ser Tyr Glu Glu Cys Arg
                500                 505                 510
Ala Glu Ser Val Gly Leu Tyr Leu Cys Leu His Pro Gln Val Leu
                515                 520                 525
Glu Ile Phe Gly Phe Glu Gly Ala Asp Ala Glu Asp Val Ile Tyr
                530                 535                 540
Val Asn Trp Leu Asn Met Val Arg Ala Gly Leu Leu Ala Leu Glu
                545                 550                 555
Phe Tyr Thr Pro Glu Ala Phe Asn Trp Arg Gln Ala His Met Gln
                560                 565                 570
Ala Arg Phe Val Ile Leu Arg Val Leu Leu Glu Ala Gly Glu Gly
                575                 580                 585
Leu Val Thr Ile Thr Pro Thr Thr Gly Ser Asp Gly Arg Pro Asp
                590                 595                 600
Ala Arg Val Arg Leu Asp Arg Ser Lys Ile Arg Ser Val Gly Lys
                605                 610                 615
Pro Ala Leu Glu Arg Phe Leu Arg Arg Leu Gln Val Leu Lys Ser
                620                 625                 630
Thr Gly Asp Val Ala Gly Gly Arg Ala Leu Tyr Glu Gly Tyr Ala
                635                 640                 645
Thr Val Thr Asp Ala Pro Pro Glu Cys Phe Leu Thr Leu Arg Asp
                650                 655                 660
Thr Val Leu Leu Arg Lys Glu Ser Arg Lys Leu Ile Val Gln Pro
                665                 670                 675
Asn Thr Arg Leu Glu Gly Ser Asp Val Gln Leu Leu Glu Tyr Glu
                680                 685                 690
Ala Ser Ala Ala Gly Leu Ile Arg Ser Phe Ser Glu Arg Phe Pro
                695                 700                 705
Glu Asp Gly Pro Glu Leu Glu Glu Ile Leu Thr Gln Leu Ala Thr
                710                 715                 720
Ala Asp Ala Arg Phe Trp Lys Gly Pro Ser Glu Ala Pro Ser Gly
                725                 730                 735
Gln Ala
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<210> 4
<211> 108
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2183367CD1

<400> 4

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Met Thr Arg Arg Trp Gly Pro Ser Ser Gln Leu Gln His Gln Ser
  1               5                  10                  15
Leu Pro Pro Arg Ser His Ala Trp Ser Pro Arg Ala Gln Pro Ala
```

```
                  20                  25                  30
Arg Arg Glu Gly Glu Arg Arg Arg Arg Pro Asn Arg Pro Ala Trp
                  35                  40                  45
Gly Pro Ser Arg Arg Pro Leu Pro Pro Glu Arg Gly Leu Asp Pro
                  50                  55                  60
Asn Gly Glu Gln Val Val Trp Gln Ala Ser Gly Trp Ala Ala Arg
                  65                  70                  75
Ile Ile Gln His Glu Met Asp His Leu Gln Gly Cys Leu Phe Ile
                  80                  85                  90
Asp Lys Met Asp Ser Arg Thr Phe Thr Asn Val Tyr Trp Met Lys
                  95                 100                 105
Val Asn Asp
```

<210> 5
<211> 510
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2458536CD1

<400> 5

```
Met Ala Ala Asp Ser Asp Asp Gly Ala Val Ser Ala Pro Ala Ala
  1               5                  10                  15
Ser Asp Gly Gly Val Ser Lys Ser Thr Thr Ser Gly Glu Glu Leu
                  20                  25                  30
Val Val Gln Val Pro Val Val Asp Val Gln Ser Asn Asn Phe Lys
                  35                  40                  45
Glu Met Trp Pro Ser Leu Leu Leu Ala Ile Lys Thr Ala Asn Phe
                  50                  55                  60
Val Ala Val Asp Thr Glu Leu Ser Gly Leu Gly Asp Arg Lys Ser
                  65                  70                  75
Leu Leu Asn Gln Cys Ile Glu Glu Arg Tyr Lys Ala Val Cys His
                  80                  85                  90
Ala Ala Arg Thr Arg Ser Ile Leu Ser Leu Gly Leu Ala Cys Phe
                  95                 100                 105
Lys Arg Gln Pro Asp Lys Gly Glu His Ser Tyr Leu Ala Gln Val
                 110                 115                 120
Phe Asn Leu Thr Leu Leu Cys Met Glu Glu Tyr Val Ile Glu Pro
                 125                 130                 135
Lys Ser Val Gln Phe Leu Ile Gln His Gly Phe Asn Phe Asn Gln
                 140                 145                 150
Gln Tyr Ala Gln Gly Ile Pro Tyr His Lys Gly Asn Asp Lys Gly
                 155                 160                 165
Asp Glu Ser Gln Ser Gln Ser Val Arg Thr Leu Phe Leu Glu Leu
                 170                 175                 180
Ile Arg Ala Arg Arg Pro Leu Val Leu His Asn Gly Leu Ile Asp
                 185                 190                 195
Leu Val Phe Leu Tyr Gln Asn Phe Tyr Ala His Leu Pro Glu Ser
                 200                 205                 210
Leu Gly Thr Phe Thr Ala Asp Leu Cys Glu Met Phe Pro Ala Gly
                 215                 220                 225
```

```
Ile Tyr Asp Thr Lys Tyr Ala Ala Glu Phe His Ala Arg Phe Val
                230                 235                 240
Ala Ser Tyr Leu Glu Tyr Ala Phe Arg Lys Cys Glu Arg Glu Asn
                245                 250                 255
Gly Lys Gln Arg Ala Ala Gly Ser Pro His Leu Thr Leu Glu Phe
                260                 265                 270
Cys Asn Tyr Pro Ser Ser Met Arg Asp His Ile Asp Tyr Arg Cys
                275                 280                 285
Cys Leu Pro Pro Ala Thr His Arg Pro His Pro Thr Ser Ile Cys
                290                 295                 300
Asp Asn Phe Ser Ala Tyr Gly Trp Cys Pro Leu Gly Pro Gln Cys
                305                 310                 315
Pro Gln Ser His Asp Ile Asp Leu Ile Ile Asp Thr Asp Glu Ala
                320                 325                 330
Ala Ala Glu Asp Lys Arg Arg Arg Arg Arg Arg Arg Glu Lys Arg
                335                 340                 345
Lys Arg Ala Leu Leu Asn Leu Pro Gly Thr Gln Thr Ser Gly Glu
                350                 355                 360
Ala Lys Asp Gly Pro Pro Lys Lys Gln Val Cys Gly Asp Ser Ile
                365                 370                 375
Lys Pro Glu Glu Thr Glu Gln Glu Val Ala Ala Asp Glu Thr Arg
                380                 385                 390
Asn Leu Pro His Ser Lys Gln Gly Asn Lys Asn Asp Leu Glu Met
                395                 400                 405
Gly Ile Lys Ala Ala Arg Pro Glu Ile Ala Asp Arg Ala Thr Ser
                410                 415                 420
Glu Val Pro Gly Ser Gln Ala Ser Pro Asn Pro Val Pro Gly Asp
                425                 430                 435
Gly Leu His Arg Ala Gly Phe Asp Ala Phe Met Thr Gly Tyr Val
                440                 445                 450
Met Ala Tyr Val Glu Val Ser Gln Gly Pro Gln Pro Cys Ser Ser
                455                 460                 465
Gly Pro Trp Leu Pro Glu Cys His Asn Lys Val Tyr Leu Ser Gly
                470                 475                 480
Lys Ala Val Pro Leu Thr Val Ala Lys Ser Gln Phe Ser Arg Ser
                485                 490                 495
Ser Lys Ala His Asn Gln Lys Met Lys Leu Thr Trp Gly Ser Ser
                500                 505                 510
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<210> 6
<211> 732
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2472979CD1

<400> 6

```
Met Gln Gln Ala Leu Glu Leu Ala Leu Asp Arg Ala Glu Tyr Val
  1               5                  10                  15
Ile Glu Ser Ala Arg Gln Arg Pro Pro Lys Arg Lys Tyr Leu Ser
                 20                  25                  30
```

Ser Gly Arg Lys Ser Val Phe Gln Lys Leu Tyr Asp Leu Tyr Ile
35 40 45
Glu Glu Cys Glu Lys Glu Pro Glu Val Lys Lys Leu Arg Arg Asn
50 55 60
Val Asn Leu Leu Glu Lys Leu Val Met Gln Glu Thr Leu Ser Cys
65 70 75
Leu Val Val Asn Leu Tyr Pro Gly Asn Glu Gly Tyr Ser Leu Met
80 85 90
Leu Arg Gly Lys Asn Gly Ser Asp Ser Glu Thr Ile Arg Leu Pro
95 100 105
Tyr Glu Glu Gly Glu Leu Leu Glu Tyr Leu Asp Ala Glu Glu Leu
110 115 120
Pro Pro Ile Leu Val Asp Leu Leu Glu Lys Ser Gln Val Asn Ile
125 130 135
Phe His Cys Gly Cys Val Ile Ala Glu Ile Arg Asp Tyr Arg Gln
140 145 150
Ser Ser Asn Met Lys Ser Pro Gly Tyr Gln Ser Arg His Ile Leu
155 160 165
Leu Arg Pro Thr Met Gln Thr Leu Ile Cys Asp Val His Ser Ile
170 175 180
Thr Ser Asp Asn His Lys Trp Thr Gln Glu Asp Lys Leu Leu Leu
185 190 195
Glu Ser Gln Leu Ile Leu Ala Thr Ala Glu Pro Leu Cys Leu Asp
200 205 210
Pro Ser Ile Ala Val Thr Cys Thr Ala Asn Arg Leu Leu Tyr Asn
215 220 225
Lys Gln Lys Met Asn Thr Arg Pro Met Lys Arg Cys Phe Lys Arg
230 235 240
Tyr Ser Arg Ser Ser Leu Asn Arg Gln Gln Asp Leu Ser His Cys
245 250 255
Pro Pro Pro Pro Gln Leu Arg Leu Leu Asp Phe Leu Gln Lys Arg
260 265 270
Lys Glu Arg Lys Ala Gly Gln His Tyr Asp Leu Lys Ile Ser Lys
275 280 285
Ala Gly Asn Cys Val Asp Met Trp Lys Arg Ser Pro Cys Asn Leu
290 295 300
Ala Ile Pro Ser Glu Val Asp Val Glu Lys Tyr Ala Lys Val Glu
305 310 315
Lys Ser Ile Lys Ser Asp Asp Ser Gln Pro Thr Val Trp Pro Ala
320 325 330
His Asp Val Lys Asp Asp Tyr Val Phe Glu Cys Glu Ala Gly Thr
335 340 345
Gln Tyr Gln Lys Thr Lys Leu Thr Ile Leu Gln Ser Leu Gly Asp
350 355 360
Pro Leu Tyr Tyr Gly Lys Ile Gln Pro Cys Lys Ala Asp Glu Glu
365 370 375
Ser Asp Ser Gln Met Ser Pro Ser His Ser Ser Thr Asp Asp His
380 385 390
Ser Asn Trp Phe Ile Ile Gly Ser Lys Thr Asp Ala Glu Arg Val
395 400 405
Val Asn Gln Tyr Gln Glu Leu Val Gln Asn Glu Ala Lys Cys Pro
410 415 420
Val Lys Met Ser His Ser Ser Ser Gly Ser Ala Ser Leu Ser Gln
425 430 435
Val Ser Pro Gly Lys Glu Thr Asp Gln Thr Glu Thr Val Ser Val
440 445 450

```
Gln Ser Ser Val Leu Gly Lys Gly Val Lys His Arg Pro Pro Pro
                455                 460                 465
Ile Lys Leu Pro Ser Ser Ser Gly Asn Ser Ser Ser Gly Asn Tyr
                470                 475                 480
Phe Thr Pro Gln Gln Thr Ser Ser Phe Leu Lys Ser Pro Thr Pro
                485                 490                 495
Pro Pro Ser Ser Lys Pro Ser Ser Ile Pro Arg Lys Ser Ser Val
                500                 505                 510
Asp Leu Asn Gln Val Ser Met Leu Ser Pro Ala Ala Leu Ser Pro
                515                 520                 525
Ala Ser Ser Ser Gln Arg Thr Thr Ala Thr Gln Val Met Ala Asn
                530                 535                 540
Ser Ala Gly Leu Asn Phe Ile Asn Val Val Gly Ser Val Cys Gly
                545                 550                 555
Ala Gln Ala Leu Met Ser Gly Ser Asn Pro Met Leu Gly Cys Asn
                560                 565                 570
Thr Gly Ala Ile Thr Pro Ala Gly Ile Asn Leu Ser Gly Leu Leu
                575                 580                 585
Pro Ser Gly Gly Leu Leu Pro Asn Ala Leu Pro Ser Ala Met Gln
                590                 595                 600
Ala Ala Ser Gln Ala Gly Val Pro Phe Gly Leu Lys Asn Thr Ser
                605                 610                 615
Ser Leu Arg Pro Leu Asn Leu Leu Gln Leu Pro Gly Gly Ser Leu
                620                 625                 630
Ile Phe Asn Thr Leu Gln Gln Gln Gln Gln Gln Leu Ser Gln Phe
                635                 640                 645
Thr Pro Gln Gln Pro Gln Gln Pro Thr Thr Cys Ser Pro Gln Gln
                650                 655                 660
Pro Gly Glu Gln Gly Ser Glu Gln Gly Ser Thr Ser Gln Glu Gln
                665                 670                 675
Ala Leu Ser Ala Gln Gln Ala Ala Val Ile Asn Leu Thr Gly Val
                680                 685                 690
Gly Ser Phe Met Gln Ser Gln Ala Ala Ala Val Ala Ile Leu Ala
                695                 700                 705
Ala Ser Asn Gly Tyr Gly Ser Ser Ser Ser Thr Asn Ser Ser Ala
                710                 715                 720
Thr Ser Ser Ser Ala Tyr Arg Gln Pro Val Lys Lys
                725                 730
```

<210> 7
<211> 343
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2612754CD1

<400> 7

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Met Ala Gly Gly Arg Pro His Leu Lys Arg Ser Phe Ser Ile Ile
  1               5                  10                  15
Pro Cys Phe Val Phe Val Glu Ser Val Leu Leu Gly Ile Val Ile
                 20                  25                  30
```

```
Leu Leu Ala Tyr Arg Leu Glu Phe Thr Asp Thr Phe Pro Val His
                35                  40                  45
Thr Gln Gly Phe Phe Cys Tyr Asp Ser Thr Tyr Ala Lys Pro Tyr
                50                  55                  60
Pro Gly Pro Glu Ala Ala Ser Arg Val Pro Pro Ala Leu Val Tyr
                65                  70                  75
Ala Leu Val Thr Ala Gly Pro Thr Leu Thr Ile Leu Leu Gly Glu
                80                  85                  90
Leu Ala Arg Pro Phe Phe Pro Ala Pro Pro Ser Ala Val Pro Val
                95                 100                 105
Ile Gly Glu Ser Thr Ile Val Ser Gly Ala Cys Cys Arg Phe Ser
               110                 115                 120
Pro Pro Val Arg Arg Leu Val Arg Phe Leu Gly Val Tyr Ser Phe
               125                 130                 135
Gly Leu Phe Thr Thr Thr Ile Phe Ala Asn Ala Gly Gln Val Val
               140                 145                 150
Thr Gly Asn Pro Thr Pro His Phe Leu Ser Val Cys Arg Pro Asn
               155                 160                 165
Tyr Thr Ala Leu Gly Cys Leu Pro Pro Ser Pro Asp Arg Pro Gly
               170                 175                 180
Pro Asp Arg Phe Val Thr Asp Gln Gly Ala Cys Ala Gly Ser Pro
               185                 190                 195
Ser Leu Val Ala Ala Ala Arg Arg Ala Phe Pro Cys Lys Asp Ala
               200                 205                 210
Ala Leu Cys Ala Tyr Ala Val Thr Tyr Thr Ala Met Tyr Val Thr
               215                 220                 225
Leu Val Phe Arg Val Lys Gly Ser Arg Leu Val Lys Pro Ser Leu
               230                 235                 240
Cys Leu Ala Leu Leu Cys Pro Ala Phe Leu Val Gly Val Val Arg
               245                 250                 255
Val Ala Glu Tyr Arg Asn His Trp Ser Asp Val Leu Ala Gly Phe
               260                 265                 270
Leu Thr Gly Ala Ala Ile Ala Thr Phe Leu Val Thr Cys Val Val
               275                 280                 285
His Asn Phe Gln Ser Arg Pro Pro Ser Gly Arg Ser Val Ser Pro
               290                 295                 300
Trp Glu Asp Leu Gly Gln Ala Pro Thr Met Asp Ser Pro Leu Glu
               305                 310                 315
Lys Asn Pro Arg Ser Ala Gly Arg Ile Arg His Arg His Gly Ser
               320                 325                 330
Pro His Pro Ser Arg Arg Thr Ala Pro Ala Val Ala Thr
               335                 340
```

<210> 8
<211> 717
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2616646CD1

<400> 8

```
Met Arg Arg Ser Pro Pro Ser Leu Arg Leu Arg Leu Ser Ala Asp
  1               5                  10                  15
Asn Leu Val Ala Ala Ser Gly Gly Cys Trp Phe Val Leu Gly Glu
             20                  25                  30
Arg Arg Ala Gly Ser Leu Leu Ser Ala Ser Tyr Gly Thr Phe Ala
             35                  40                  45
Met Pro Gly Met Val Leu Phe Gly Arg Arg Trp Ala Ile Ala Ser
             50                  55                  60
Asp Asp Leu Val Phe Pro Gly Phe Phe Glu Leu Val Val Arg Val
             65                  70                  75
Leu Trp Trp Ile Gly Ile Leu Thr Leu Tyr Leu Met His Arg Gly
             80                  85                  90
Lys Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser Tyr Leu Ile
             95                 100                 105
Val Leu Met Ile Leu Leu Ala Val Val Ile Cys Thr Val Ser Ala
            110                 115                 120
Ile Met Cys Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly Pro
            125                 130                 135
Arg Lys Ser Met Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe
            140                 145                 150
Phe Pro Glu Met Val Trp Ala Ser Leu Gly Ala Ala Trp Val Ala
            155                 160                 165
Asp Gly Val Gln Cys Asp Arg Thr Val Val Asn Gly Ile Ile Ala
            170                 175                 180
Thr Val Val Val Ser Trp Ile Ile Ile Ala Ala Thr Val Val Ser
            185                 190                 195
Ile Ile Ile Val Phe Asp Pro Leu Gly Gly Lys Met Ala Pro Tyr
            200                 205                 210
Ser Ser Ala Gly Pro Ser His Leu Asp Ser His Asp Ser Ser Gln
            215                 220                 225
Leu Leu Asn Gly Leu Lys Thr Ala Ala Thr Ser Val Trp Glu Thr
            230                 235                 240
Arg Ile Lys Leu Leu Cys Cys Cys Ile Gly Lys Asp Asp His Thr
            245                 250                 255
Arg Val Ala Phe Ser Ser Thr Ala Glu Leu Phe Ser Thr Tyr Phe
            260                 265                 270
Ser Asp Thr Asp Leu Val Pro Ser Asp Ile Ala Ala Gly Leu Ala
            275                 280                 285
Leu Leu His Gln Gln Gln Asp Asn Ile Arg Asn Asn Gln Glu Pro
            290                 295                 300
Ala Gln Val Val Cys His Ala Pro Gly Ser Ser Gln Glu Ala Asp
            305                 310                 315
Leu Asp Ala Glu Leu Glu Asn Cys His His Tyr Met Gln Phe Ala
            320                 325                 330
Ala Ala Ala Tyr Gly Trp Pro Leu Tyr Ile Tyr Arg Asn Pro Leu
            335                 340                 345
Thr Gly Leu Cys Arg Ile Gly Gly Asp Cys Cys Arg Ser Arg Thr
            350                 355                 360
Thr Asp Tyr Asp Leu Val Gly Gly Asp Gln Leu Asn Cys His Phe
            365                 370                 375
Gly Ser Ile Leu His Thr Thr Gly Leu Gln Tyr Arg Asp Phe Ile
            380                 385                 390
His Val Ser Phe His Asp Lys Val Tyr Glu Leu Pro Phe Leu Val
            395                 400                 405
Ala Leu Asp His Arg Lys Glu Ser Val Val Val Ala Val Arg Gly
            410                 415                 420
```

```
Thr Met Ser Leu Gln Asp Val Leu Thr Asp Leu Ser Ala Glu Ser
                425                 430                 435
Glu Val Leu Asp Val Glu Cys Glu Val Gln Asp Arg Leu Ala His
                440                 445                 450
Lys Gly Ile Ser Gln Ala Ala Arg Tyr Val Tyr Gln Arg Leu Ile
                455                 460                 465
Asn Asp Gly Ile Leu Ser Gln Ala Phe Ser Ile Ala Pro Glu Tyr
                470                 475                 480
Arg Leu Val Ile Val Gly His Ser Leu Gly Gly Gly Ala Ala Ala
                485                 490                 495
Leu Leu Ala Thr Met Leu Arg Ala Ala Tyr Pro Gln Val Arg Cys
                500                 505                 510
Tyr Ala Phe Ser Pro Pro Arg Gly Leu Trp Ser Lys Ala Leu Gln
                515                 520                 525
Glu Tyr Ser Gln Ser Phe Ile Val Ser Leu Val Leu Gly Lys Asp
                530                 535                 540
Val Ile Pro Arg Leu Ser Val Thr Asn Leu Glu Asp Leu Lys Arg
                545                 550                 555
Arg Ile Leu Arg Val Val Ala His Cys Asn Lys Pro Lys Tyr Lys
                560                 565                 570
Ile Leu Leu His Gly Leu Trp Tyr Glu Leu Phe Gly Gly Asn Pro
                575                 580                 585
Asn Asn Leu Pro Thr Glu Leu Asp Gly Gly Asp Gln Glu Val Leu
                590                 595                 600
Thr Gln Pro Leu Leu Gly Glu Gln Ser Leu Leu Thr Arg Trp Ser
                605                 610                 615
Pro Ala Tyr Ser Phe Ser Ser Asp Ser Pro Leu Asp Ser Ser Pro
                620                 625                 630
Lys Tyr Pro Pro Leu Tyr Pro Pro Gly Arg Ile Ile His Leu Gln
                635                 640                 645
Glu Glu Gly Ala Ser Gly Arg Phe Gly Cys Cys Ser Ala Ala His
                650                 655                 660
Tyr Ser Ala Lys Trp Ser His Glu Ala Glu Phe Ser Lys Ile Leu
                665                 670                 675
Ile Gly Pro Lys Met Leu Thr Asp His Met Pro Asp Ile Leu Met
                680                 685                 690
Arg Ala Leu Asp Ser Val Val Ser Asp Arg Ala Ala Cys Val Ser
                695                 700                 705
Cys Pro Ala Gln Gly Val Ser Ser Val Asp Val Ala
                710                 715
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<210> 9
<211> 236
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2625111CD1

<400> 9

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Met Leu Pro Asp Cys Leu Ser Ala Glu Gly Glu Leu Arg Cys Arg
  1               5                  10                  15
```

```
Arg Leu Leu Ala Gly Ala Thr Ala Arg Leu Arg Ala Arg Pro Ala
                20                  25                  30
Ser Ala Ala Val Leu Val Pro Leu Cys Ser Val Arg Gly Val Pro
                35                  40                  45
Ala Leu Leu Tyr Thr Leu Arg Ser Ser Arg Leu Thr Gly Arg His
                50                  55                  60
Lys Gly Asp Val Ser Phe Pro Gly Gly Lys Cys Asp Pro Ala Asp
                65                  70                  75
Gln Asp Val Val His Thr Ala Leu Arg Glu Thr Arg Glu Glu Leu
                80                  85                  90
Gly Leu Ala Val Pro Glu Glu His Val Trp Gly Leu Leu Arg Pro
                95                 100                 105
Val Tyr Asp Pro Gln Lys Ala Thr Val Val Pro Val Leu Ala Gly
               110                 115                 120
Val Gly Pro Leu Asp Pro Gln Ser Leu Arg Pro Asn Ser Glu Glu
               125                 130                 135
Val Asp Glu Val Phe Ala Leu Pro Leu Ala His Leu Leu Gln Thr
               140                 145                 150
Gln Asn Gln Gly Tyr Thr His Phe Cys Arg Gly Gly His Phe Arg
               155                 160                 165
Tyr Thr Leu Pro Val Phe Leu His Gly Pro His Arg Val Trp Gly
               170                 175                 180
Leu Thr Ala Val Ile Thr Glu Phe Ala Leu Gln Leu Leu Ala Pro
               185                 190                 195
Gly Thr Tyr Gln Pro Arg Leu Ala Gly Leu Thr Cys Ser Gly Ala
               200                 205                 210
Glu Gly Leu Ala Arg Pro Lys Gln Pro Leu Ala Ser Pro Cys Gln
               215                 220                 225
Ala Ser Ser Thr Pro Gly Leu Asn Lys Gly Leu
               230                 235
```

<210> 10
<211> 386
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2724525CD1

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<400> 10
Met Ser Ala Leu Glu Lys Ser Met His Leu Gly Arg Leu Pro Ser
  1               5                  10                  15
Arg Pro Pro Leu Pro Gly Ser Gly Gly Ser Gln Ser Gly Ala Lys
                20                  25                  30
Met Arg Met Gly Pro Gly Arg Lys Arg Asp Phe Ser Pro Val Pro
                35                  40                  45
Trp Ser Gln Tyr Phe Glu Ser Met Glu Asp Val Glu Val Glu Asn
                50                  55                  60
Glu Thr Gly Lys Asp Thr Phe Arg Val Tyr Lys Ser Gly Ser Glu
                65                  70                  75
Gly Pro Val Leu Leu Leu Leu His Gly Gly Gly His Ser Ala Leu
                80                  85                  90
```

```
Ser Trp Ala Val Phe Thr Ala Ala Ile Ile Ser Arg Val Gln Cys
                 95                  100                 105
Arg Ile Val Ala Leu Asp Leu Arg Ser His Gly Glu Thr Lys Val
                110                 115                 120
Lys Asn Pro Glu Asp Leu Ser Ala Glu Thr Met Ala Lys Asp Val
                125                 130                 135
Gly Asn Val Val Glu Ala Met Tyr Gly Asp Leu Pro Pro Pro Ile
                140                 145                 150
Met Leu Ile Gly His Ser Met Gly Gly Ala Ile Ala Val His Thr
                155                 160                 165
Ala Ser Ser Asn Leu Val Pro Ser Leu Leu Gly Leu Cys Met Ile
                170                 175                 180
Asp Val Val Glu Gly Thr Ala Met Asp Ala Leu Asn Ser Met Gln
                185                 190                 195
Asn Phe Leu Arg Gly Arg Pro Lys Thr Phe Lys Ser Leu Glu Asn
                200                 205                 210
Ala Ile Glu Trp Ser Val Lys Ser Gly Gln Ile Arg Asn Leu Glu
                215                 220                 225
Ser Ala Arg Val Ser Met Val Gly Gln Val Lys Gln Cys Glu Gly
                230                 235                 240
Ile Thr Ser Pro Glu Gly Ser Lys Ser Ile Val Glu Gly Ile Ile
                245                 250                 255
Glu Glu Glu Glu Glu Asp Glu Glu Gly Ser Glu Ser Ile Ser Lys
                260                 265                 270
Arg Lys Lys Glu Asp Asp Met Glu Thr Lys Lys Asp His Pro Tyr
                275                 280                 285
Thr Trp Arg Ile Glu Leu Ala Lys Thr Glu Lys Tyr Trp Asp Gly
                290                 295                 300
Trp Phe Arg Gly Leu Ser Asn Leu Phe Leu Ser Cys Pro Ile Pro
                305                 310                 315
Lys Leu Leu Leu Leu Ala Gly Val Asp Arg Leu Asp Lys Asp Leu
                320                 325                 330
Thr Ile Gly Gln Met Gln Gly Lys Phe Gln Met Gln Val Leu Pro
                335                 340                 345
Gln Cys Gly His Ala Val His Glu Asp Ala Pro Asp Lys Val Ala
                350                 355                 360
Glu Ala Val Ala Thr Phe Leu Ile Arg His Arg Phe Ala Glu Pro
                365                 370                 375
Ile Gly Gly Phe Gln Cys Val Phe Pro Gly Cys
                380                 385
```

<210> 11
<211> 522
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2824691CD1

<400> 11

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Met Val Arg Ser Gly Lys Asn Gly Asp Leu His Leu Lys Gln Ile
  1               5                  10                  15
```

```
Ala Tyr Tyr Lys Arg Thr Gly Glu Tyr His Ser Thr Thr Leu Pro
                20                  25                  30
Ser Glu Arg Ser Gly Ile Arg Arg Ala Ala Lys Lys Phe Val Phe
            35                  40                  45
Lys Glu Lys Lys Leu Phe Tyr Val Gly Lys Asp Arg Lys Gln Asn
        50                  55                  60
Arg Leu Val Ile Val Ser Glu Glu Glu Lys Lys Lys Val Leu Arg
    65                  70                  75
Glu Cys His Glu Asn Asp Ser Gly Ala His His Gly Ile Ser Arg
80                  85                  90
Thr Leu Thr Leu Val Glu Ser Asn Tyr Tyr Trp Thr Ser Val Thr
            95                  100                 105
Asn Asp Val Lys Gln Trp Val Tyr Ala Cys Gln His Cys Gln Val
        110                 115                 120
Ala Lys Asn Thr Val Ile Val Ala Pro Lys Gln His Leu Leu Lys
    125                 130                 135
Val Glu Asn Pro Trp Ser Leu Val Thr Val Asp Leu Met Gly Pro
140                 145                 150
Phe His Thr Ser Asn Arg Ser His Val Tyr Ala Ile Ile Met Thr
            155                 160                 165
Asp Leu Phe Thr Lys Trp Ile Val Ile Leu Pro Leu Cys Asp Val
        170                 175                 180
Ser Ala Ser Glu Val Ser Lys Ala Ile Ile Asn Ile Phe Phe Leu
    185                 190                 195
Tyr Gly Pro Pro Gln Lys Ile Ile Met Asp Gln Arg Asp Glu Phe
200                 205                 210
Ile Gln Gln Ile Asn Ile Glu Leu Tyr Arg Leu Phe Gly Ile Lys
            215                 220                 225
Gln Ile Val Ile Ser His Thr Ser Gly Thr Val Asn Pro Met Glu
        230                 235                 240
Ser Thr Pro Asn Thr Ile Lys Ala Phe Leu Ser Lys His Cys Ala
    245                 250                 255
Asp His Pro Asn Asn Trp Asp Asp His Leu Ser Ala Val Ser Phe
260                 265                 270
Ala Phe Asn Val Thr His Leu Glu Pro Thr Lys Asn Thr Pro Tyr
            275                 280                 285
Phe Gln Met Phe Ser Arg Asn Pro Tyr Met Pro Glu Thr Ser Asp
        290                 295                 300
Ser Leu His Glu Val Asp Gly Asp Asn Thr Ser Met Phe Ala Lys
    305                 310                 315
Ile Leu Asp Ala Ile Lys Glu Ala Asp Lys Ile Met Glu Asn Lys
320                 325                 330
Thr Thr Ser Leu Gly Gln Met Glu Asn Asn Asn Leu Asp Glu Leu
            335                 340                 345
Asn Lys Ser Lys Ile Ile Val Lys Lys Lys Pro Lys Gln Leu Asn
        350                 355                 360
Pro Phe His Leu Lys Val Gly His Glu Val Leu Arg Gln Arg Lys
    365                 370                 375
Asn Trp Trp Lys Asp Gly Arg Phe Gln Ser Glu Trp Val Gly Pro
380                 385                 390
Cys Val Ile Asp Tyr Ile Thr Glu Ser Gly Cys Ala Val Leu Arg
            395                 400                 405
Asp Asn Thr Gly Val Arg Leu Lys Arg Pro Ile Lys Met Ser His
        410                 415                 420
Leu Lys Pro Tyr Ile Arg Glu Ser Ser Glu Gln Glu Ser Leu Tyr
    425                 430                 435
```

```
Leu Leu Gln Gly Ser Val Val Ala Asp His Asp Tyr Ile Gly Leu
                440                 445                 450
Pro Glu Ile Pro Ile Gly Ala Tyr Gln Ala Asn Ile Leu Val Glu
                455                 460                 465
Asp Ala Thr Ile Gly Ile Val Asp Asn Glu Leu Leu Thr Ser Ser
                470                 475                 480
Lys Asp Arg Glu Leu Leu Glu Tyr Arg Asn Thr Lys Ile Ser Pro
                485                 490                 495
Leu Ile Asp Asp His Ser Ser Leu Glu Lys Gln Thr Phe Ser Leu
                500                 505                 510
Leu Asp Ser Ser Asn Gln Val Leu Glu Tyr Leu Ser
                515                 520
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<210> 12
<211> 420
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4722794CD1

<400> 12

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Met Thr Met Glu Lys Gly Met Ser Ser Gly Glu Gly Leu Pro Ser
  1               5                  10                  15
Arg Ser Ser Gln Val Ser Ala Gly Lys Ile Thr Ala Lys Glu Leu
                20                  25                  30
Glu Thr Lys Gln Ser Tyr Lys Glu Lys Arg Gly Gly Phe Val Leu
                35                  40                  45
Val His Ala Gly Ala Gly Tyr His Ser Glu Ser Lys Ala Lys Glu
                50                  55                  60
Tyr Lys His Val Cys Lys Arg Ala Cys Gln Lys Ala Ile Glu Lys
                65                  70                  75
Leu Gln Ala Gly Ala Leu Ala Thr Asp Ala Val Thr Ala Ala Leu
                80                  85                  90
Val Glu Leu Glu Asp Ser Pro Phe Thr Asn Ala Gly Met Gly Ser
                95                 100                 105
Asn Leu Asn Leu Leu Gly Glu Ile Glu Cys Asp Ala Ser Ile Met
               110                 115                 120
Asp Gly Lys Ser Leu Asn Phe Gly Ala Val Gly Ala Leu Ser Gly
               125                 130                 135
Ile Lys Asn Pro Val Ser Val Ala Asn Arg Leu Leu Cys Glu Gly
               140                 145                 150
Gln Lys Gly Lys Leu Ser Ala Gly Arg Ile Pro Pro Cys Phe Leu
               155                 160                 165
Val Gly Glu Gly Ala Tyr Arg Trp Ala Val Asp His Gly Ile Pro
               170                 175                 180
Ser Cys Pro Pro Asn Ile Met Thr Thr Arg Phe Ser Leu Ala Ala
               185                 190                 195
Phe Lys Arg Asn Lys Arg Lys Leu Glu Leu Ala Glu Arg Val Asp
               200                 205                 210
Thr Asp Phe Met Gln Leu Lys Lys Arg Arg Gln Ser Ser Glu Lys
               215                 220                 225
```

```
Glu Asn Asp Ser Gly Thr Leu Asp Thr Val Gly Ala Val Val Val
                230                 235                 240
Asp His Glu Gly Asn Val Ala Ala Ala Val Ser Ser Gly Gly Leu
                245                 250                 255
Ala Leu Lys His Pro Gly Arg Val Gly Gln Ala Ala Leu Tyr Gly
                260                 265                 270
Cys Gly Cys Trp Ala Glu Asn Thr Gly Ala His Asn Pro Tyr Ser
                275                 280                 285
Thr Ala Val Ser Thr Ser Gly Cys Gly Glu His Leu Val Arg Thr
                290                 295                 300
Ile Leu Ala Arg Glu Cys Ser His Ala Leu Gln Ala Glu Asp Ala
                305                 310                 315
His Gln Ala Leu Leu Glu Thr Met Gln Asn Lys Phe Ile Ser Ser
                320                 325                 330
Pro Phe Leu Ala Ser Glu Asp Gly Val Leu Gly Gly Val Ile Val
                335                 340                 345
Leu Arg Ser Cys Arg Cys Ser Ala Glu Pro Asp Ser Ser Gln Asn
                350                 355                 360
Lys Gln Thr Leu Leu Val Glu Phe Leu Trp Ser His Thr Thr Glu
                365                 370                 375
Ser Met Cys Val Gly Tyr Met Ser Ala Gln Asp Gly Lys Ala Lys
                380                 385                 390
Thr His Ile Ser Arg Leu Pro Pro Gly Ala Val Ala Gly Gln Ser
                395                 400                 405
Val Ala Ile Glu Gly Gly Val Cys Arg Leu Glu Ser Pro Val Asn
                410                 415                 420
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<210> 13
<211> 186
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5328267CD1

<400> 13

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Met Lys Ala Leu Leu Val Leu Gly Phe Leu Leu Leu Ser Ala Ser
  1               5                  10                  15
Val Gln Ala Lys Thr Tyr Glu Arg Cys Glu Phe Ala Arg Thr Leu
                20                  25                  30
Lys Arg Asn Gly Met Ser Gly Tyr Tyr Gly Val Ser Leu Ala Asp
                35                  40                  45
Trp Val Cys Leu Ala Gln His Glu Ser Asn Tyr Asn Thr Gln Ala
                50                  55                  60
Arg Asn Tyr Asn Pro Gly Asp Gln Ser Thr Asp Tyr Gly Ile Phe
                65                  70                  75
Gln Ile Asn Ser Arg Tyr Trp Cys Asn Asp Gly Lys Thr Pro Arg
                80                  85                  90
Ala Lys Asn Ala Cys Gly Ile Pro Cys Ser Ala Leu Leu Gln Asp
                95                 100                 105
Asp Ile Thr Ala Ala Ile Gln Cys Ala Lys Arg Val Val Arg Asp
                110                 115                 120
```

```
Pro Gln Gly Ile Arg Ala Trp Val Ala Trp Gln Arg His Cys Lys
                125                 130                 135
Asn Arg Asp Leu Ser Gly Tyr Ile Arg Asn Cys Gly Val Trp Thr
                140                 145                 150
Gln Cys Thr Ser Thr Gln Leu Thr Leu Ser Leu Ser His Cys Gly
                155                 160                 165
Ser Ser Tyr Gly Glu Gly Pro Thr Ser Leu Leu Ser Pro Gln Asn
                170                 175                 180
Asn Arg Ala Phe Thr Ser
                185
```

<210> 14
<211> 248
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5382277CD1

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<400> 14
Met Ala Leu Cys Glu Ala Ala Gly Cys Gly Ser Ala Leu Leu Trp
  1               5                  10                  15
Pro Arg Leu Leu Leu Phe Gly Asp Ser Ile Thr Gln Phe Ser Phe
                20                  25                  30
Gln Gln Gly Gly Trp Gly Ala Ser Leu Ala Asp Arg Leu Val Arg
                35                  40                  45
Lys Cys Asp Val Leu Asn Arg Gly Phe Ser Gly Tyr Asn Thr Arg
                50                  55                  60
Trp Ala Lys Ile Ile Leu Pro Arg Leu Ile Arg Lys Gly Asn Ser
                65                  70                  75
Leu Asp Ile Pro Val Ala Val Thr Ile Phe Phe Gly Ala Asn Asp
                80                  85                  90
Ser Ala Leu Lys Asp Glu Asn Pro Lys Gln His Ile Pro Leu Glu
                95                 100                 105
Glu Tyr Ala Ala Asn Leu Lys Ser Met Val Gln Tyr Leu Lys Ser
               110                 115                 120
Val Asp Ile Pro Glu Asn Arg Val Ile Leu Ile Thr Pro Thr Pro
               125                 130                 135
Leu Cys Glu Thr Ala Trp Glu Glu Gln Cys Ile Ile Gln Gly Cys
               140                 145                 150
Lys Leu Asn Arg Leu Asn Ser Val Val Gly Glu Tyr Ala Asn Ala
               155                 160                 165
Cys Leu Gln Val Ala Gln Asp Cys Gly Thr Asp Val Leu Asp Leu
               170                 175                 180
Trp Thr Leu Met Gln Asp Ser Gln Asp Phe Ser Ser Tyr Leu Ser
               185                 190                 195
Asp Gly Leu His Leu Ser Pro Lys Gly Asn Glu Phe Leu Phe Ser
               200                 205                 210
His Leu Trp Pro Leu Ile Glu Lys Lys Val Ser Ser Leu Pro Leu
               215                 220                 225
Leu Leu Pro Tyr Trp Arg Asp Val Ala Glu Ala Lys Pro Glu Leu
               230                 235                 240
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Ser Leu Leu Gly Asp Gly Asp His
245

<210> 15
<211> 1231
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1659002CB1

<400> 15
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ccatgaccct ccaaggcacc aacacctacc tagtggggac cggccccagg agaatcctca 180
ttgacactgg agaaccagca attccagaat acatcagctg tttaaagcag gctctaactg 240
aatttaacac agcaatccag gaaattgtag tgactcactg gcaccgagat cattctggag 300
gcataggaga tatttgtaaa agcatcaata atgacactac ctattgcatt aaaaaactcc 360
cacggaatcc tcagagagaa gaaattatag gaaatggaga gcaacaatat gtttatctga 420
aagatggaga tgtgattaag actgagggag ccactctaag agttctatat acccctggcc 480
acactgatga tcacatggct ctactcttag aagaggaaaa tgctatcttt tctggagatt 540
gcatcctagg ggaaggaaca acggtatttg aagacctcta tgattatatg aactctttaa 600
aagagttatt gaaaatcaaa gctgatatta tatatccagg acatggccca gtaattcata 660
atgctgaagc taaaattcaa caatacattt ctcacagaaa tattcgagag cagcaaattc 720
ttacattatt tcgtgagaac tttgagaaat catttacagt aatggagctt gtaaaaatta 780
tttacaagaa tactcctgag aatttacatg aaatggctaa acataatctc ttacttcatt 840
tgaaaaaact agaaaaagaa ggaaaaatat ttagcaacac agatcctgac aagaaatgga 900
aagctcatct ttagtttcag attaaagaaa gctttgtttt attttgcttt gagagaatgg 960
tatgttttct taactatagg ttatttttata gagaatataa aagtataaaa cattaaaaat 1020
aaccctagat atactttaaa ataatgttat atttatgcta aaatatgtaa attacactat 1080
acaaccatat gataggttat ttctctaacc ttgtcttcta acgttttacc aaaaattcat 1140
aatctaatag tttatcagtt ttcaatagat taaataaaat gattacttta aaaataataa 1200
aatttatcta atttaaagtt gaaaaaaaaa a 1231

<210> 16
<211> 2636
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1881009CB1

<400> 16
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cggcctgaag ctgcccatgc gcatattcgg gctggagcct ctgaggccac acaaacgccg 180
gctggggagg cgaagtgtgg ggctgagcac cagaactcca ggagcgtctg ggctggagac 240
agaactgggt gggcaggtgg ggagggcctg cagatctgag tgggcagccg aggaggaacc 300
cagaagacgc cagcgatgga gctctgccgg ggcggaatgt ggccaggagg ggcgggagca 360
gtgacggcct gtccggcgct agaacgaggg accgtgctct caggacctct ggatgttccc 420

gagtatcctg atgttccacc cagaagccgc cagggccatc ctggagtacc gcatccgcac 480
gctggacggg gccctggaga acgcccagaa cctgggctac cagggagcca agtttgcctg 540
ggagagtgca gactccggcc tagaggtttg ccctgaggac atttacggag tccaggaggt 600
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cgacgagtac cactcagggg tcaacaactc tgtgtacacc aacgtcctgg tccagaacag 840
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gtcagcagtt tcccaagaac aagatgtgat ggcatctgct gctgaaaccc tgatgaggac 2580
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<210> 17
<211> 2634
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2054065CB1

<400> 17
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cttccgcctg ctgtcaccca cagagcgcct ctatgcctac cacctgtccc gtgccgcctg 180
gtacggaggc ctggctgtgc tgcttcagac ctcccctgag gcccccctaca tctatgctct 240
gctcagccgc ctcttccgcg cccaggaccc cgaccagctg cgccaacatg ccctggctga 300
aggccttacc gaggaggagt atcaggcgtt cctggtctat gccgcgggtg tttactccaa 360
catgggcaac tacaagtcct ttggtgacac caagtttgtt cccaacttgc ccaaggaaaa 420

gctggaacgg gtgatcctag ggagtgaggc tgctcagcag cacccagaag aagtcagggg 480
cctctggcag acctgcgggg agcttatgtt ctctctggag ccaaggcttc gacacctcgg 540
actggggcag gagggaatca ccacctattt ctctgggaat tgtaccatgg aagatgccaa 600
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ccctttccag gtgacccggg gggactacgc gcccatcctc cagaaggtgg tggagcagct 840
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<213> Homo sapiens

<220>
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